



1/31

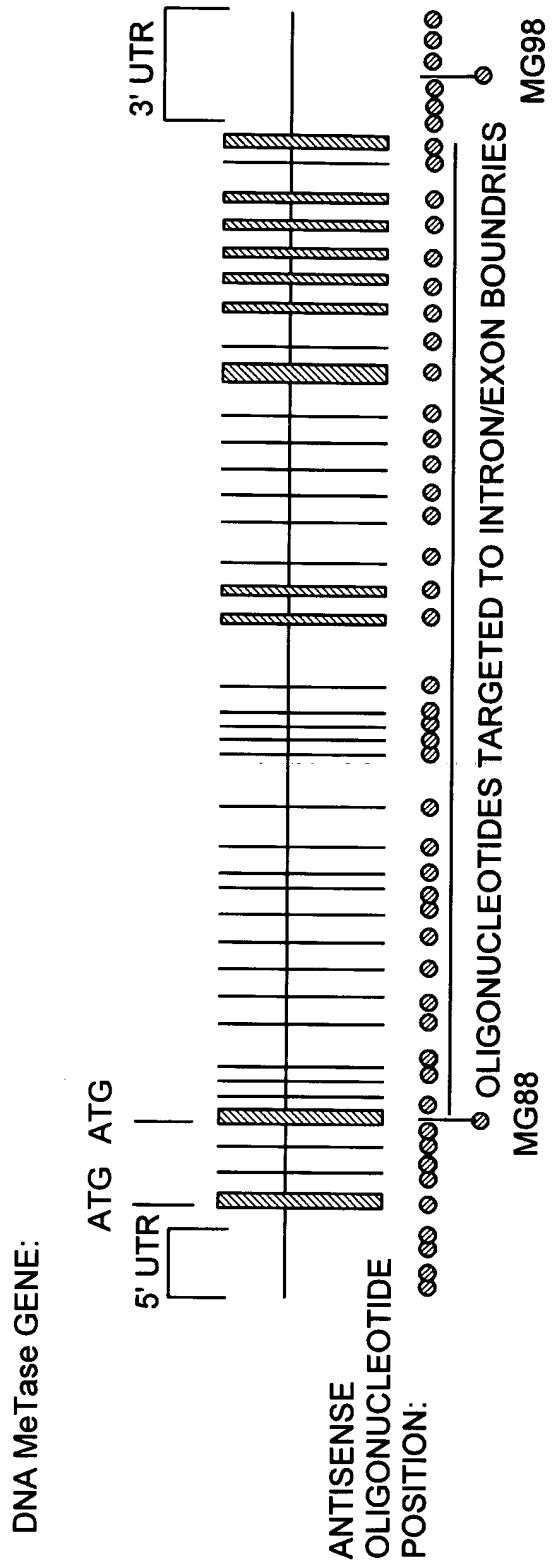


FIG. 1

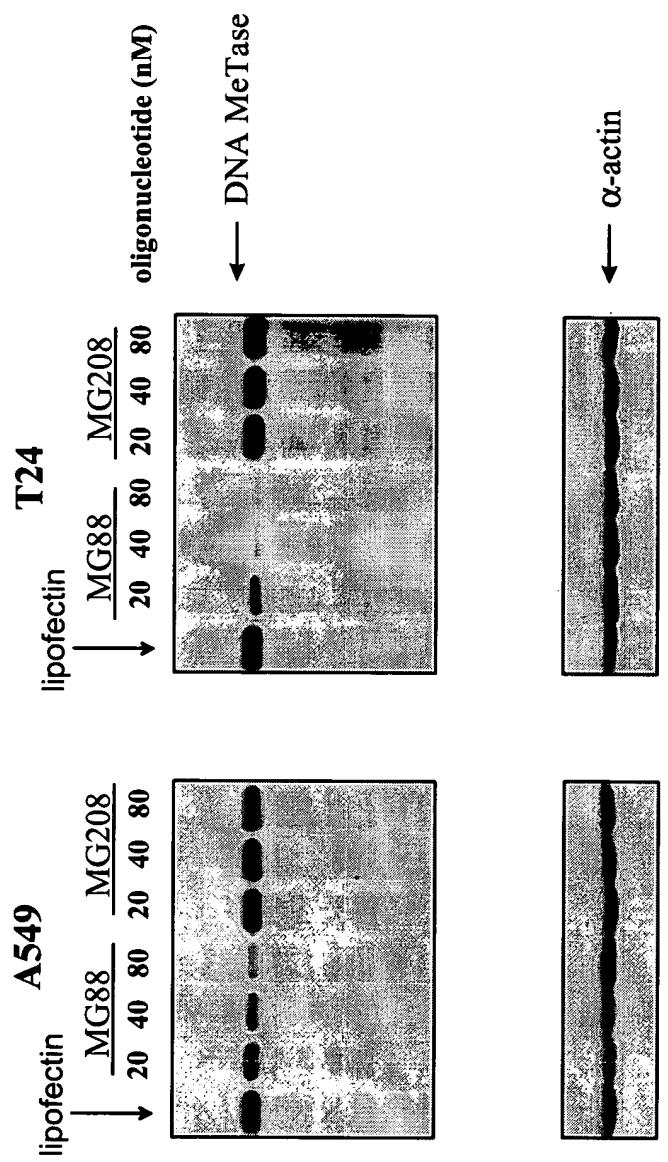


FIG. 2

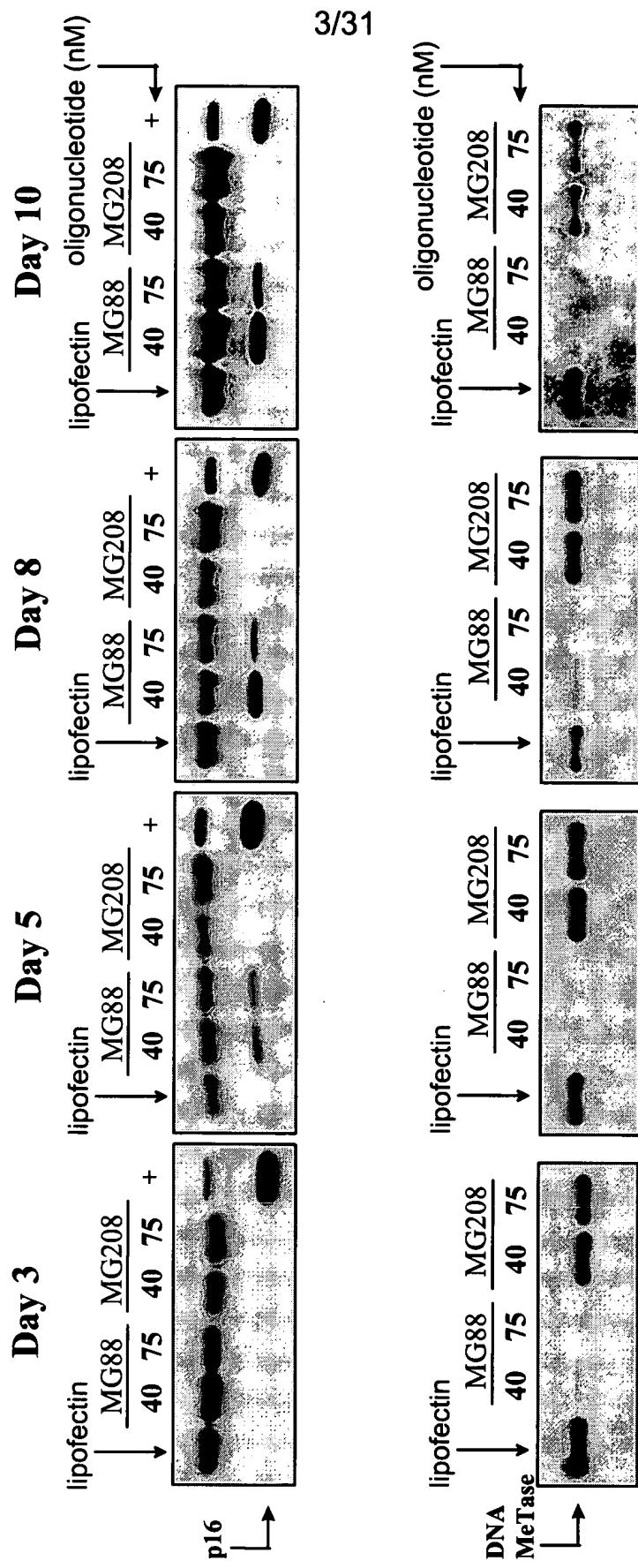


FIG. 3A

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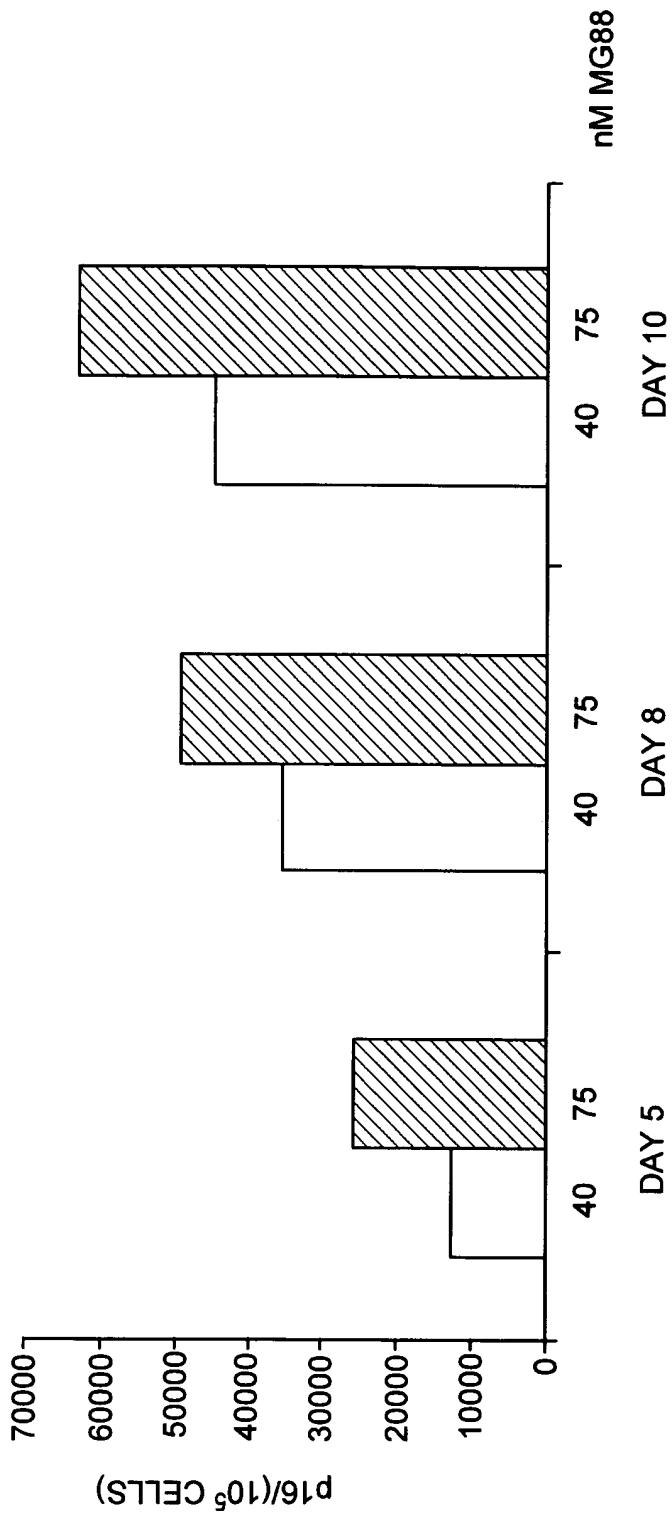


FIG. 3B

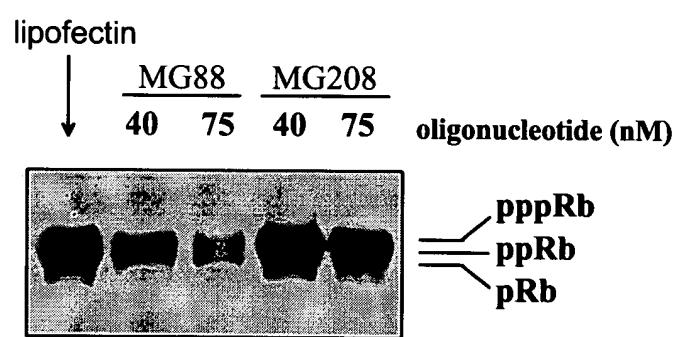


FIG. 4

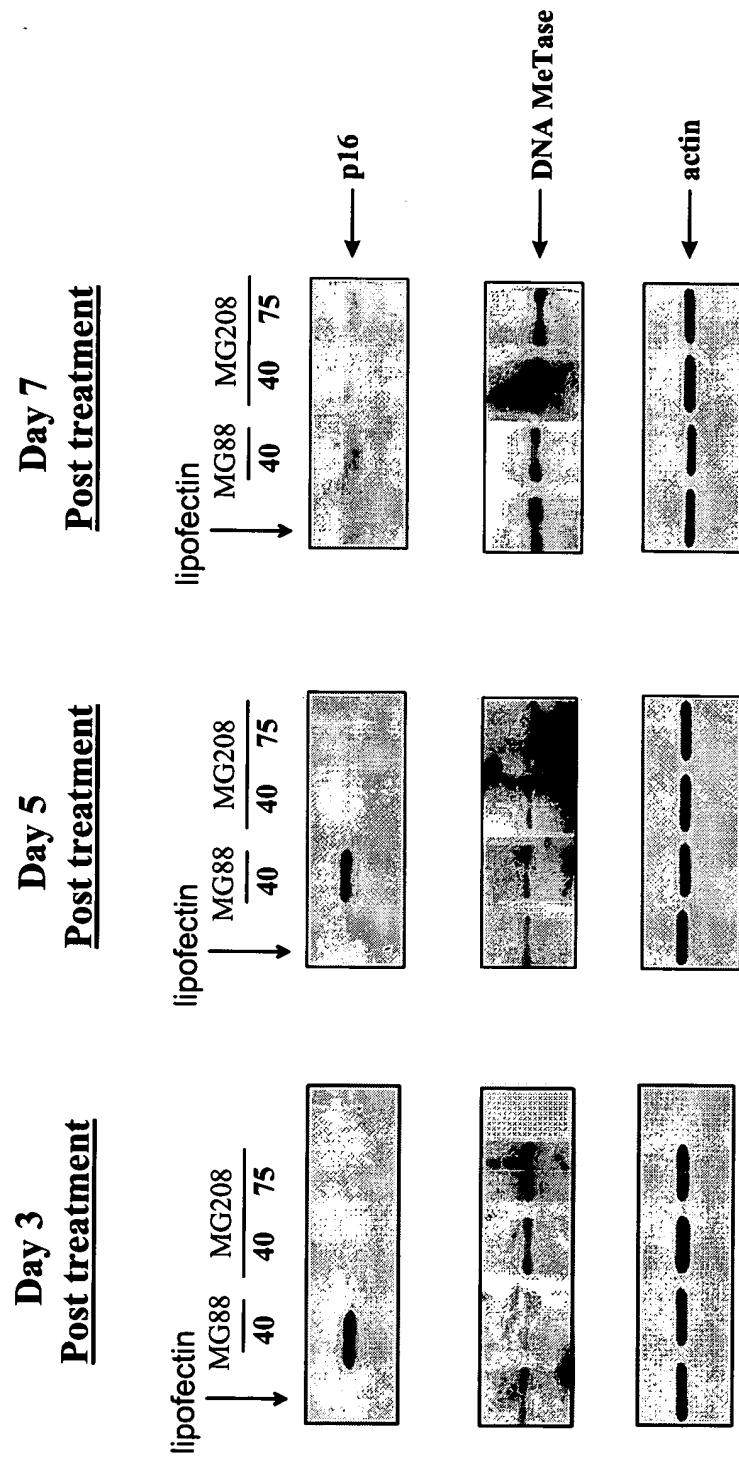


FIG. 5

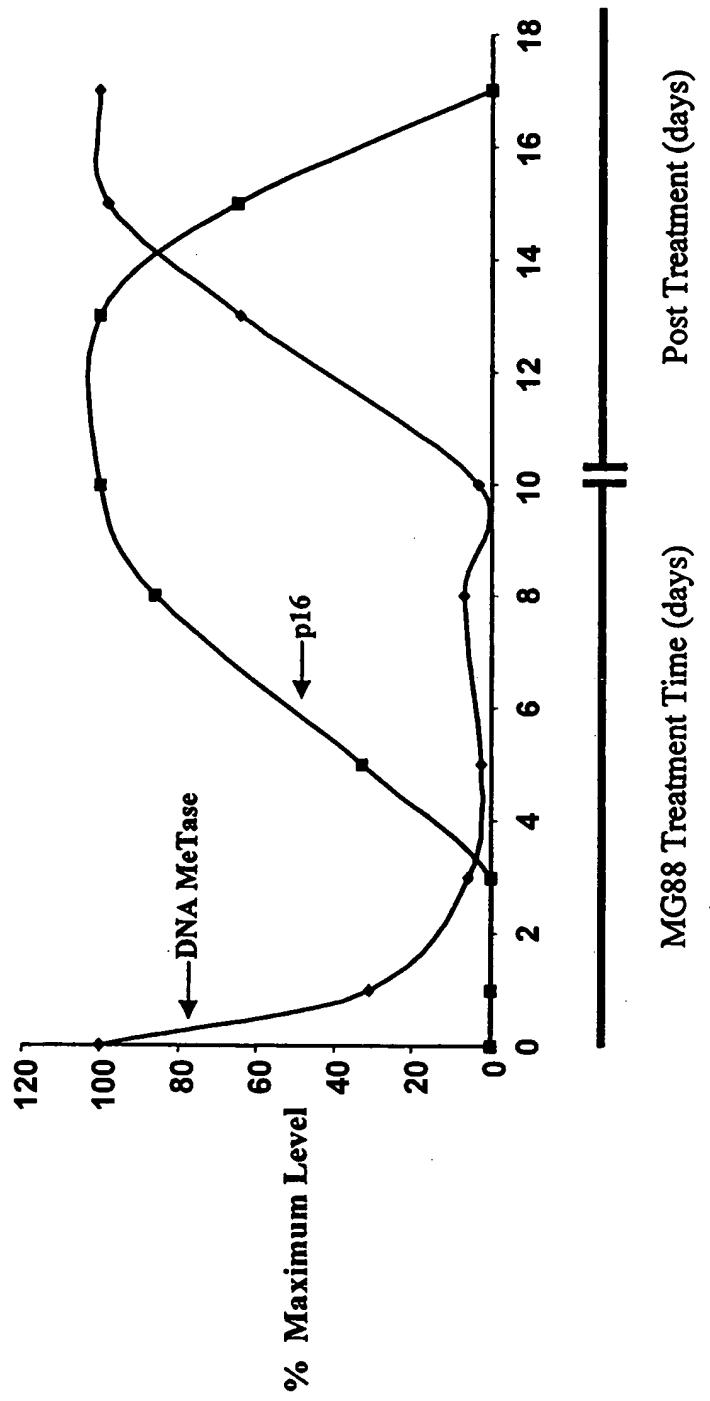


FIG. 6

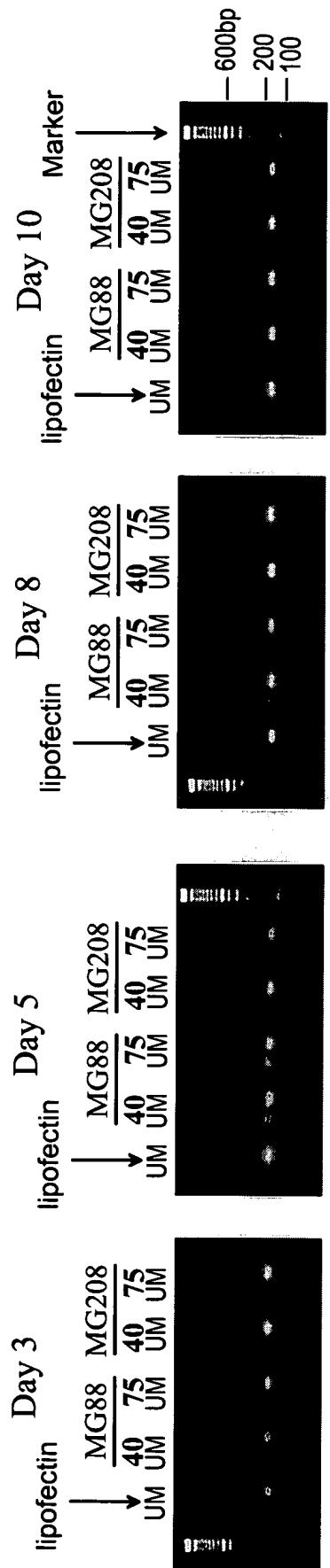
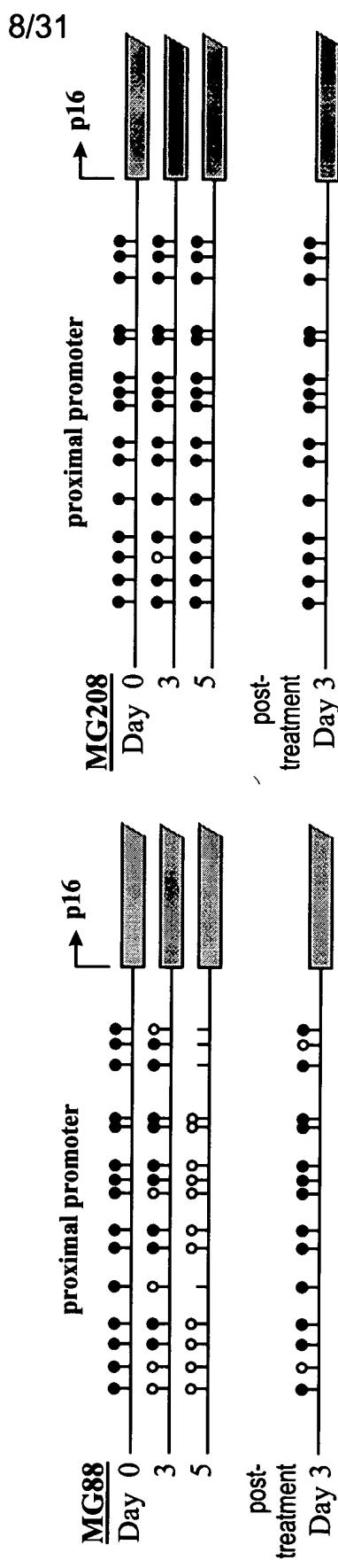


FIG. 7



\* T24 Cells

FIG. 8

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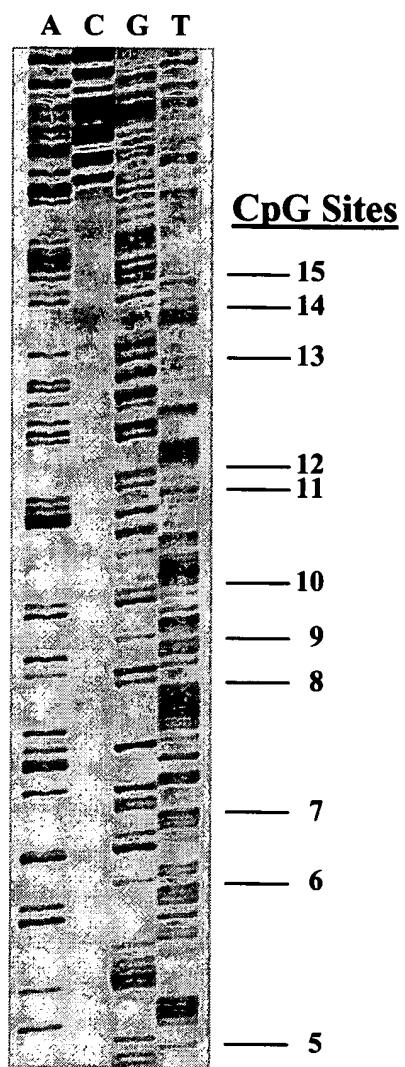


FIG. 9A

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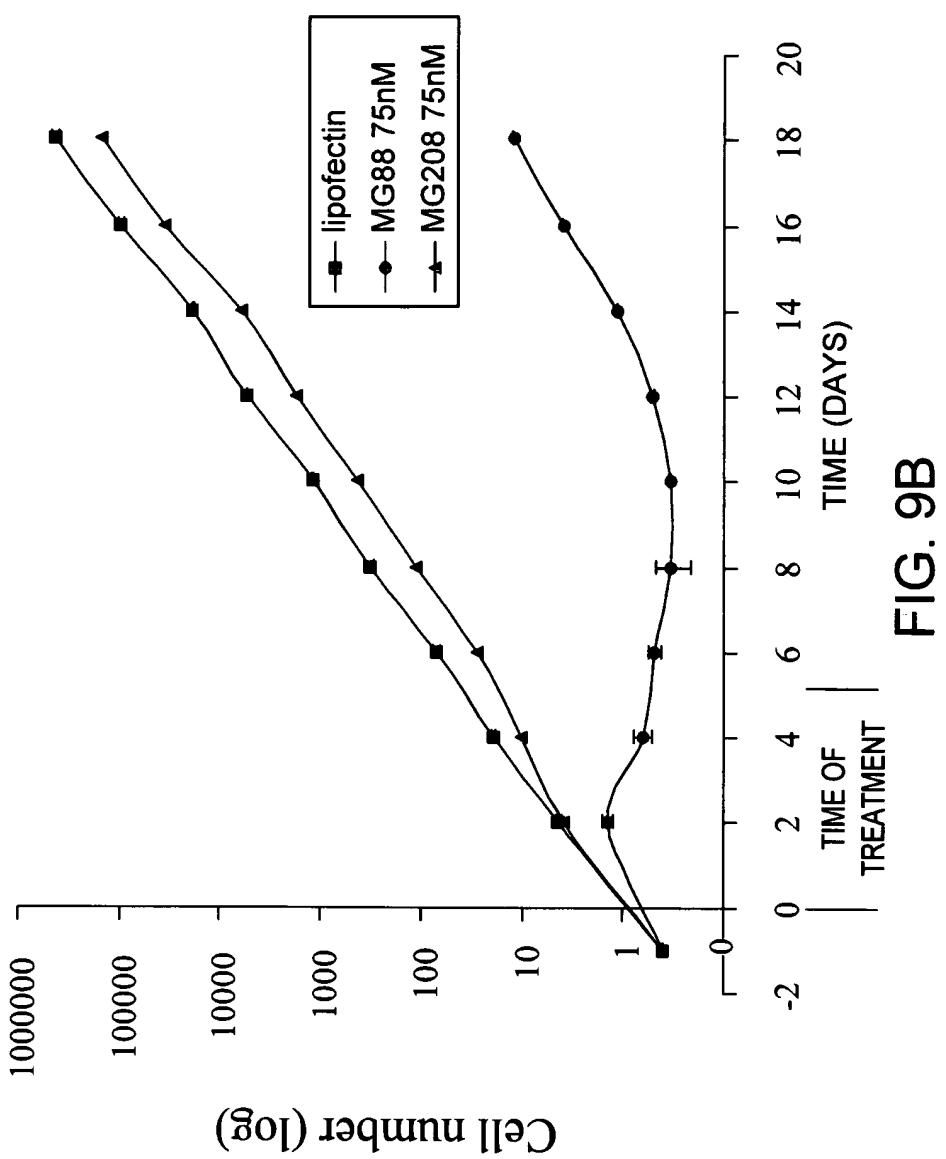


FIG. 9B

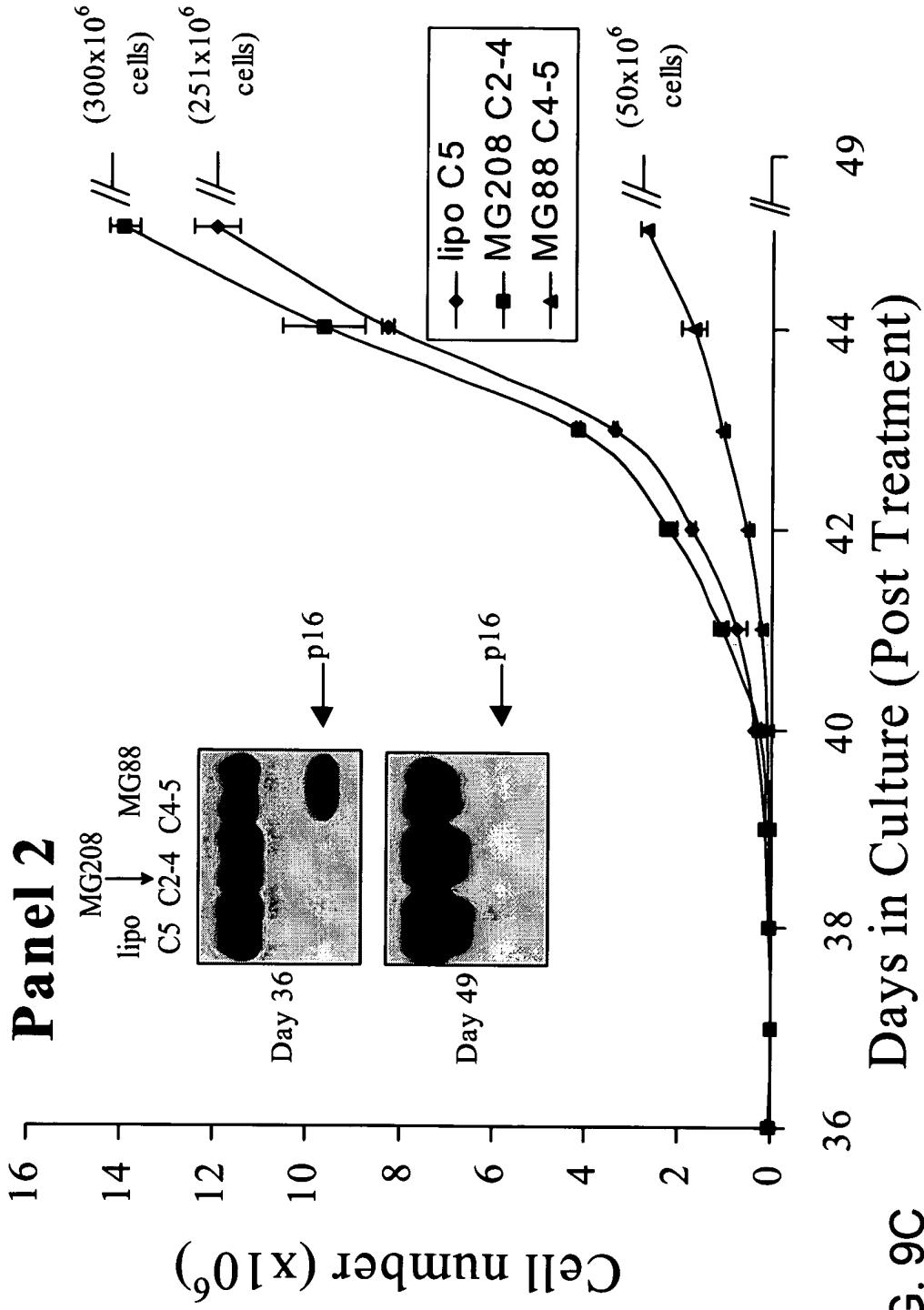
**Panel 2**

FIG. 9C

FIG. 9C Days in Culture (Post Treatment)

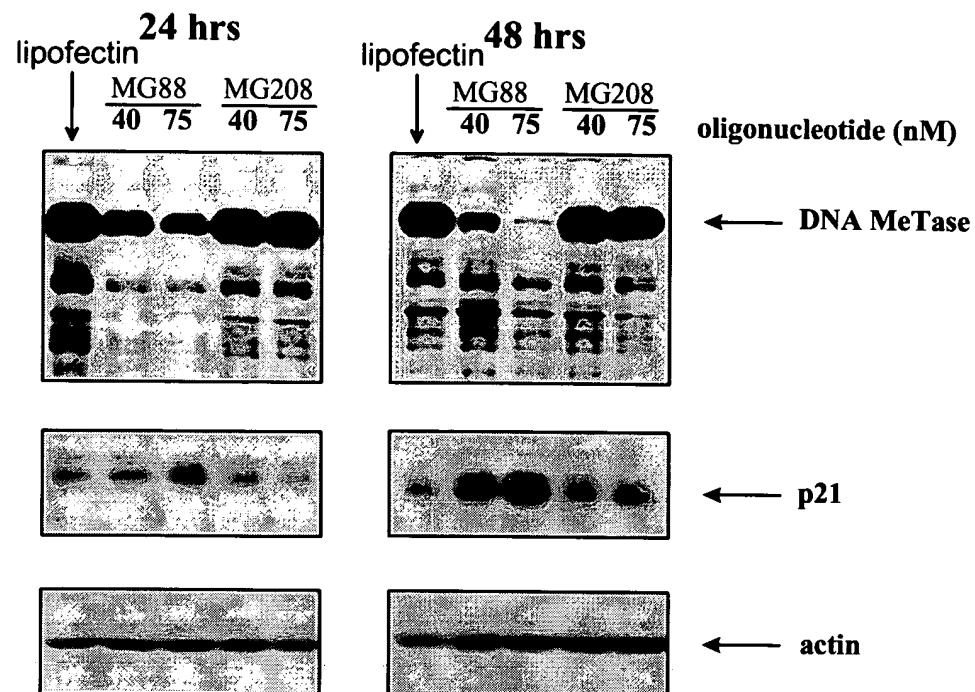


FIG. 10A

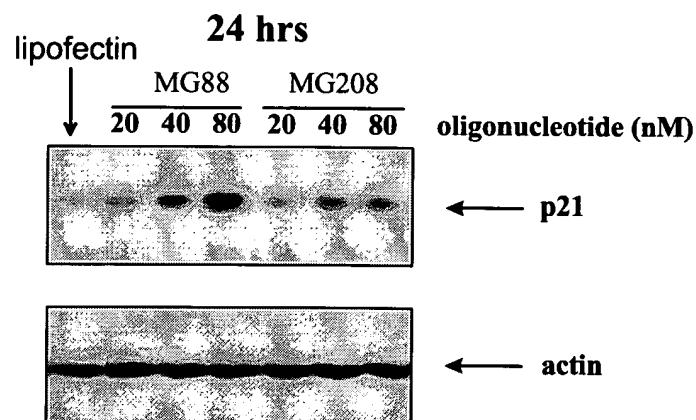


FIG. 10B

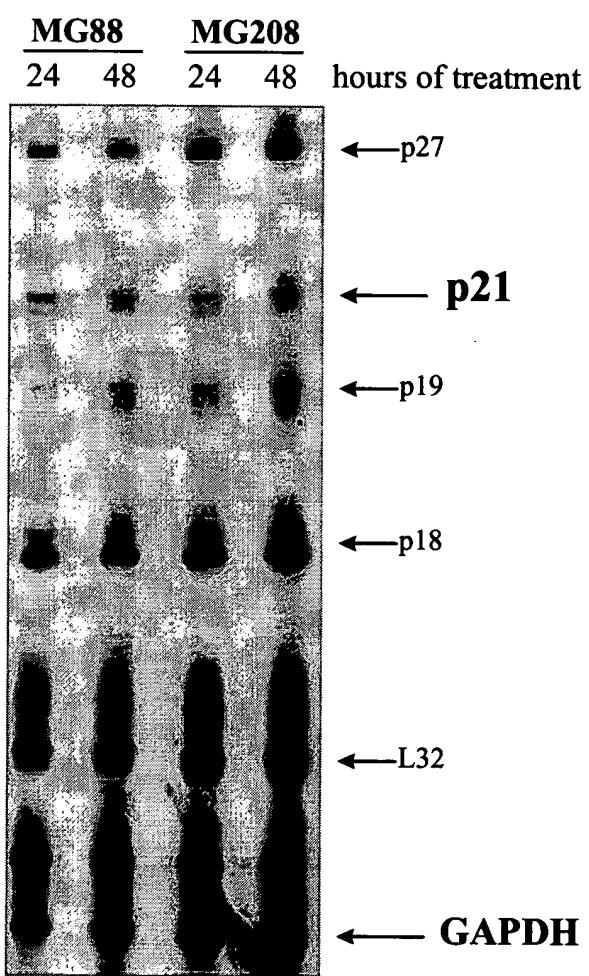
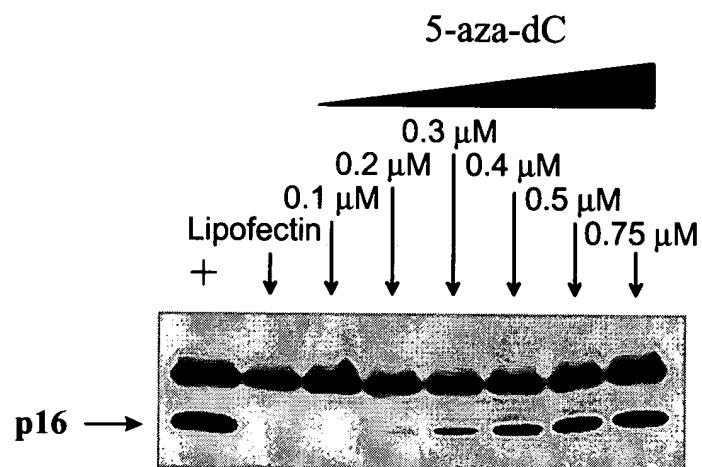


FIG. 11

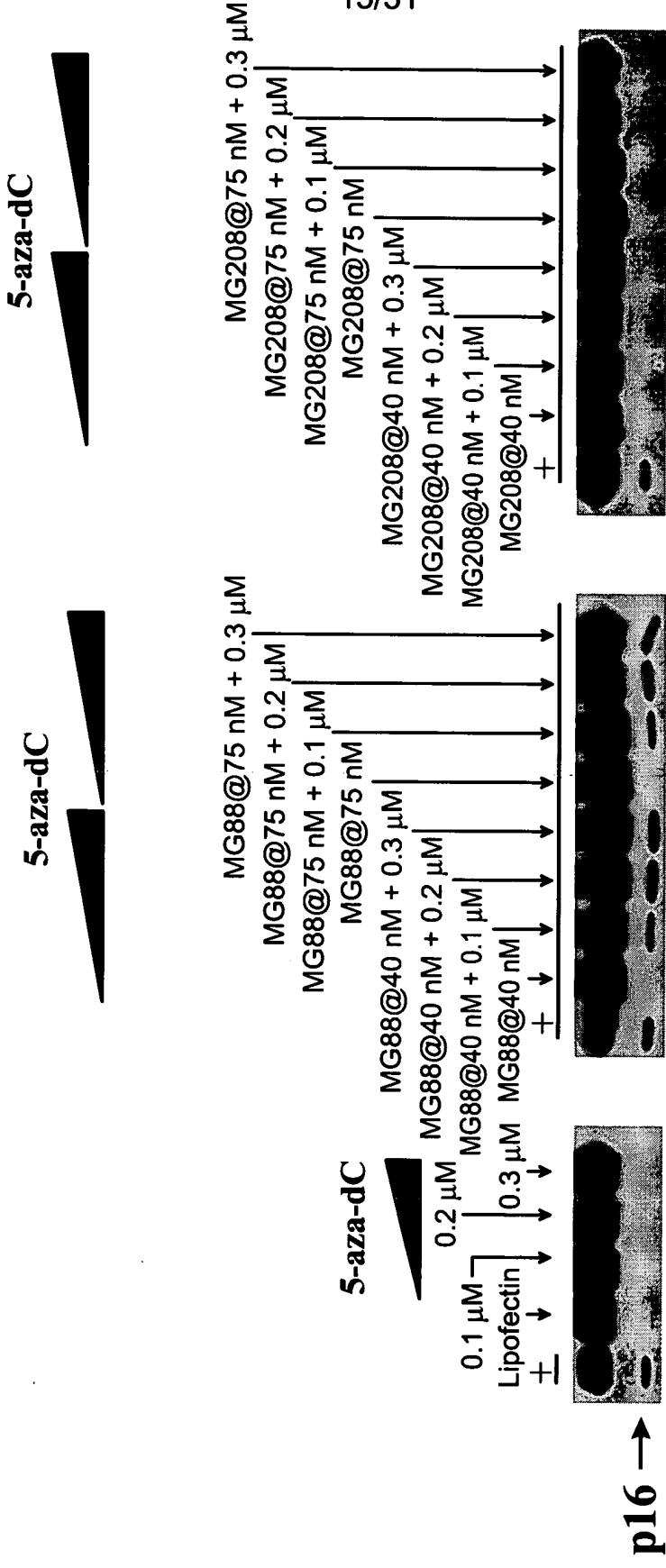
**p16 reactivation in T24 cells by 5-aza-deoxycytidine treatment**



T24 cells were plated and treated for three days with varying concentrations of 5-aza-dC. The p16 protein was immunoprecipitated from cell lysates and a Western analysis was performed.

**FIG. 12**

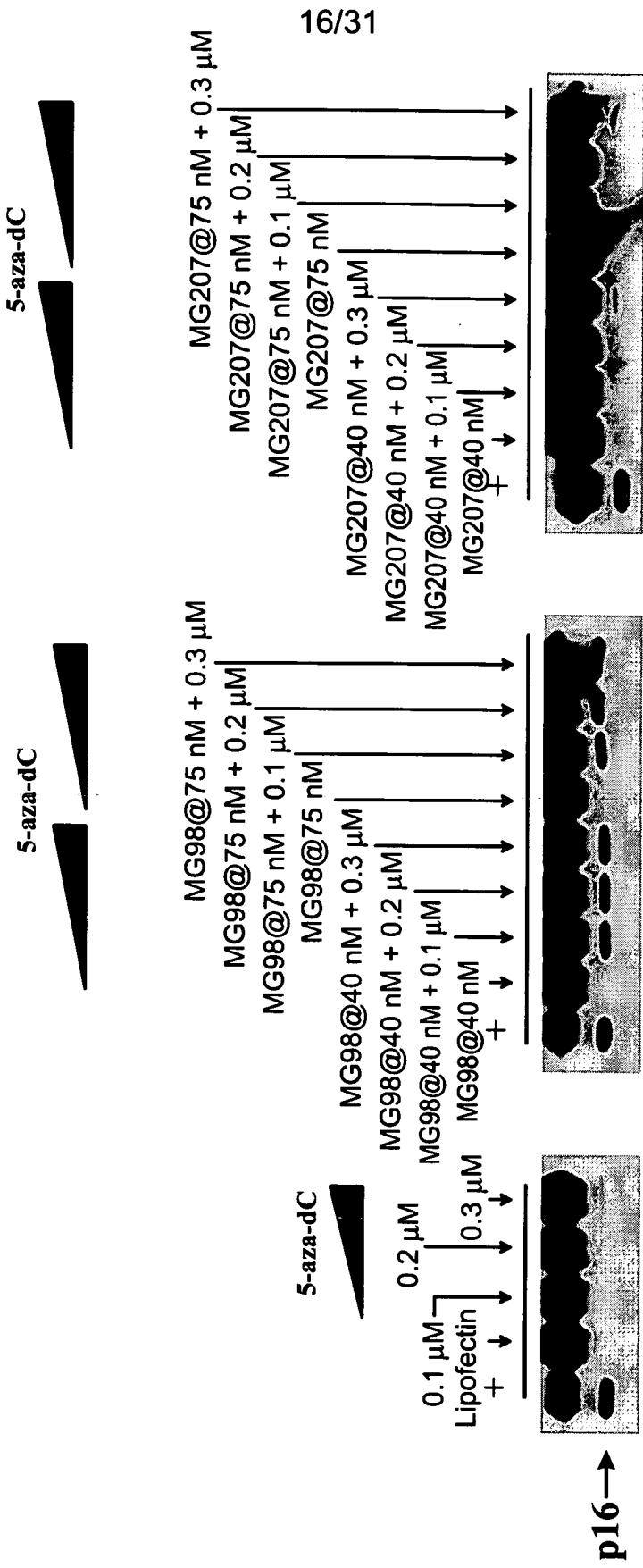
**Synergistic reactivation of p16 in T24 cells by treatment with antisense to DNA methyltransferase (MG88) and 5-aza-deoxycytidine.**



T24 cells were plated and transfected with either MG88 or MG208 and treated with varying concentrations of 5-aza-dC every day for three days. The p16 protein was immunoprecipitated from cell lysates and a Western analysis was performed.

**FIG. 13**

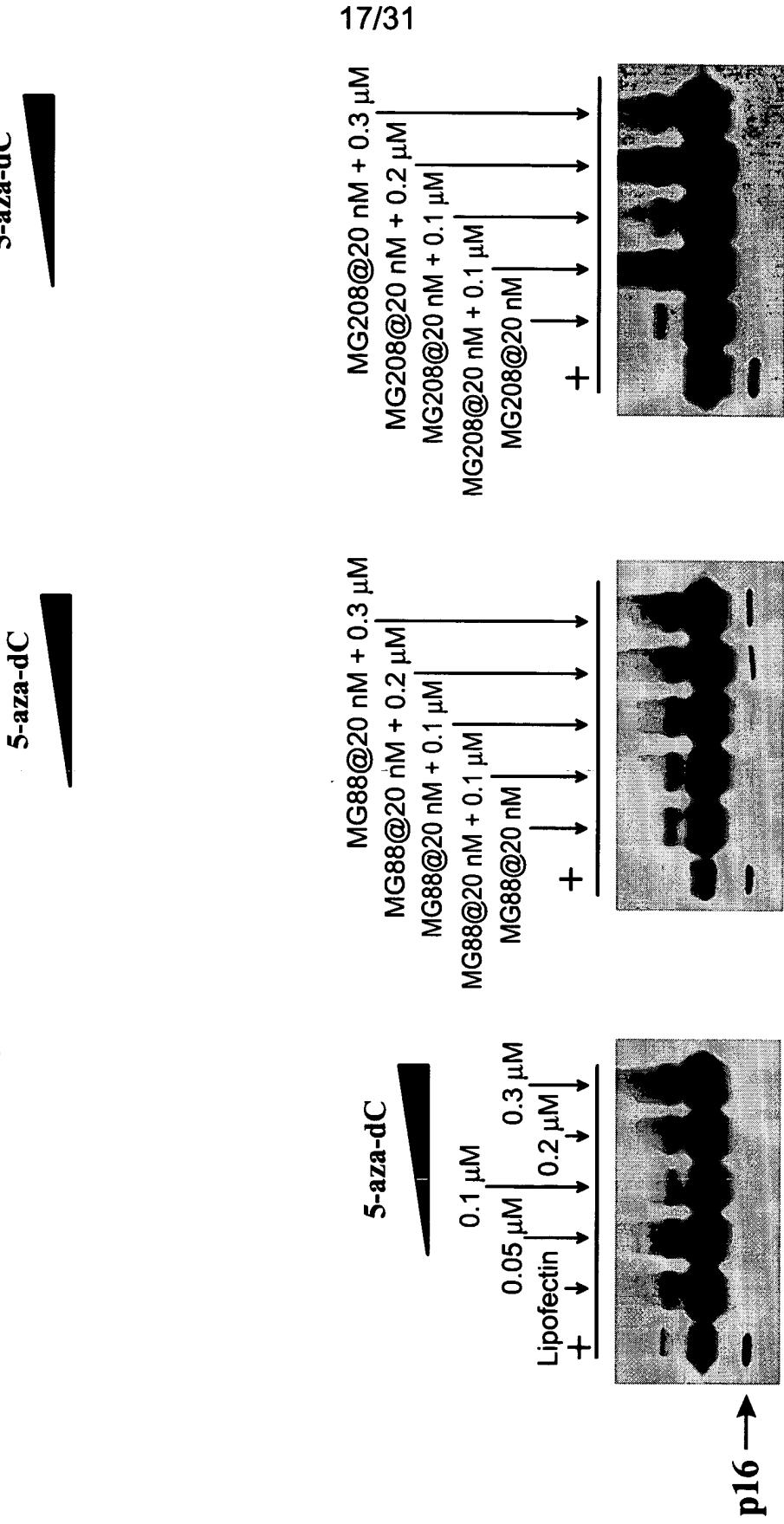
**Synergistic reactivation of p16 in T24 cells by treatment with antisense to DNA methyltransferase (MG98) and 5-aza-deoxycytidine.**



T24 cells were plated and transfected with either MG98 or MG207 and treated with varying concentrations of 5-aza-dC every day for three days. The p16 protein was immunoprecipitated from cell lysates and a Western analysis was performed.

**FIG. 14**

Synergistic reactivation of p16 in T24 cells by treatment with low dose antisense to DNA methyltransferase (MG88) and 5-aza-deoxycytidine.



T24 cells were plated and transfected with either MG88 or MG 208 and treated with varying concentrations of 5-aza-dC every day for three days. The p16 protein was immunoprecipitated from cell lysates and a Western analysis was performed.

FIG. 15

SYNERGISTIC INHIBITION OF T24 CELL GROWTH BY TREATMENT WITH ANTISENSE TO DNA  
METHYLTRANSFERASE (MG98) AND 5-aza-dC.

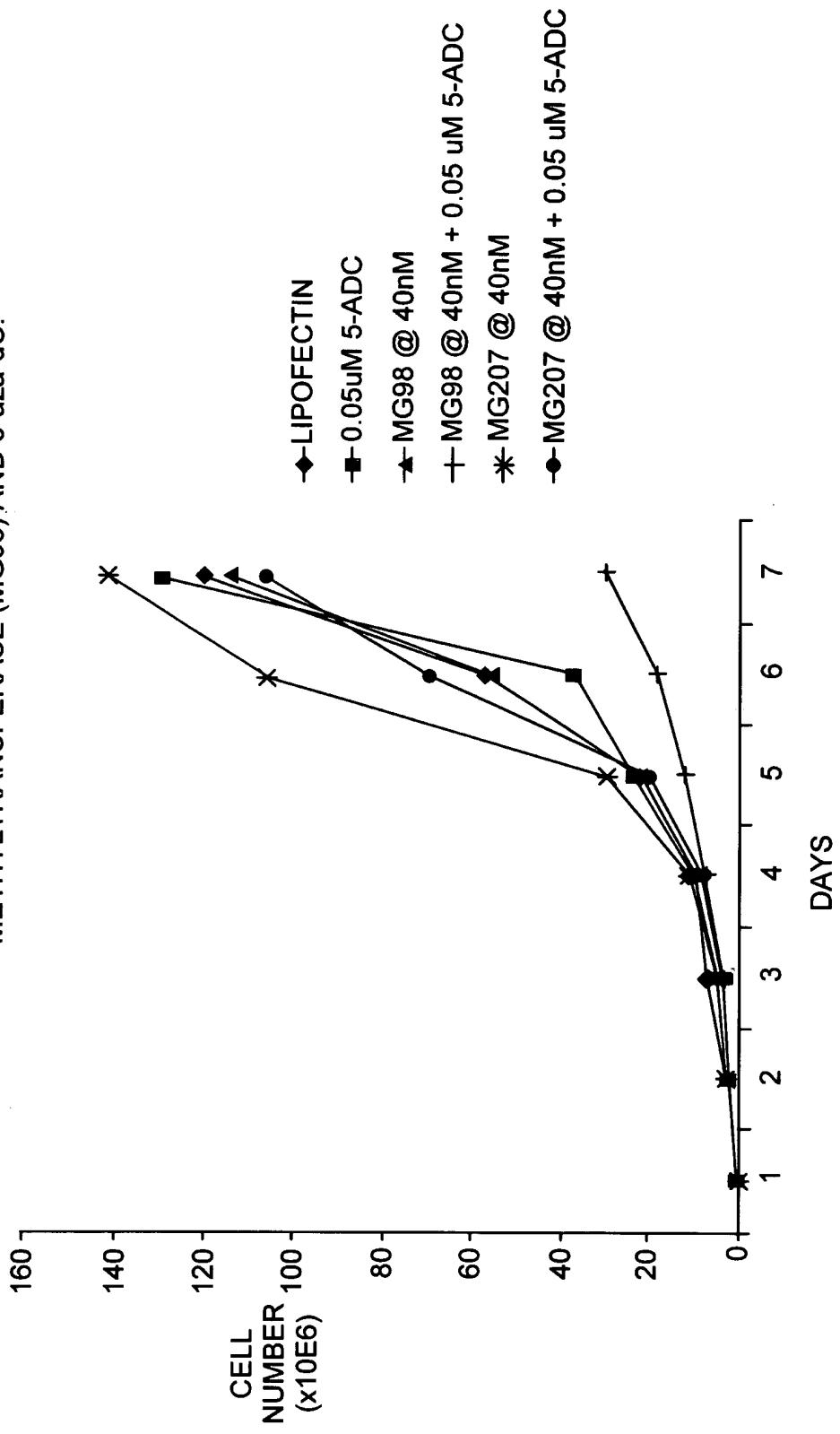


FIG. 16

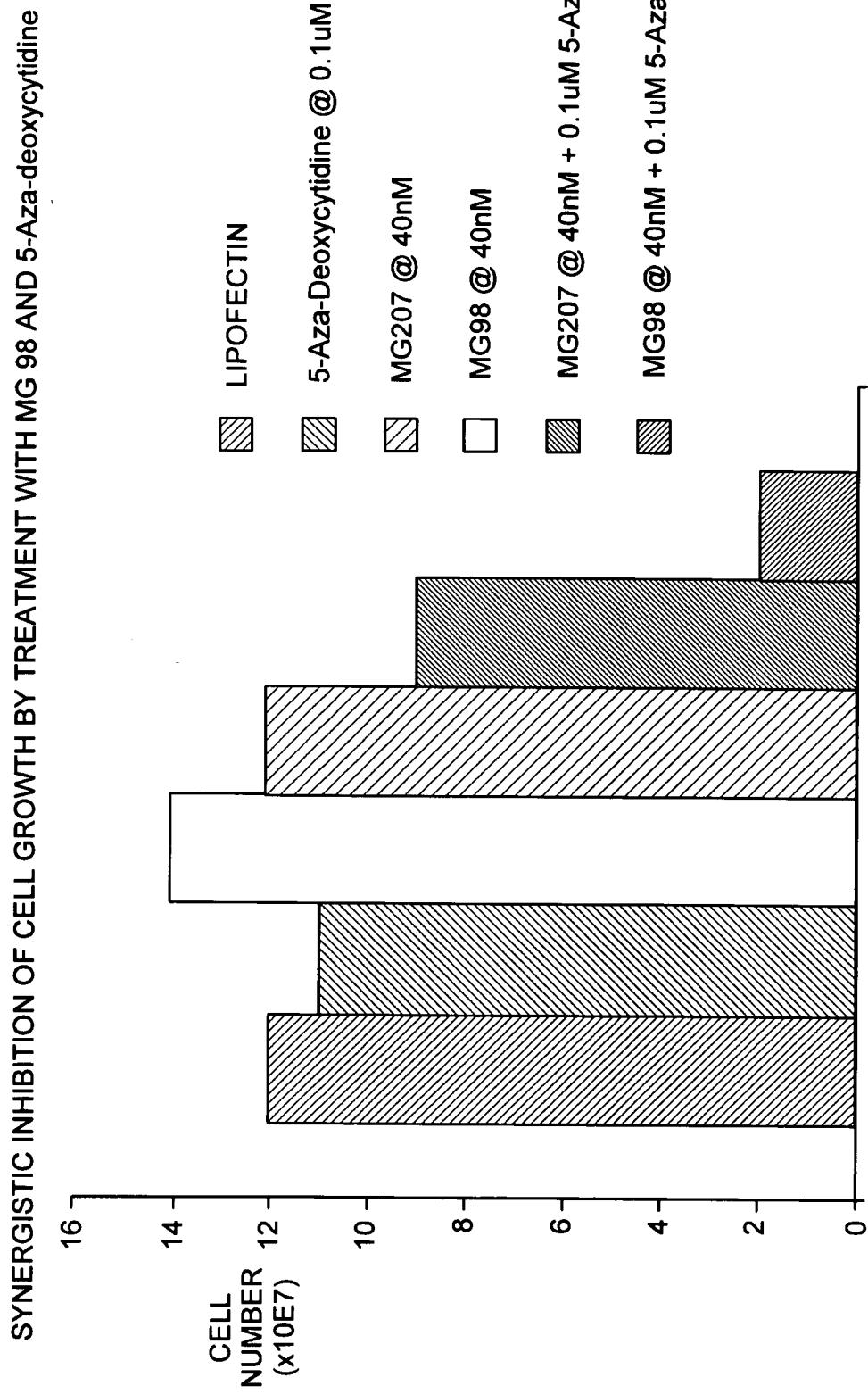


FIG. 17

SYNERGISTIC INHIBITION OF A549 CELL GROWTH BY TREATMENT WITH ANTISENSE TO DNA  
METHYLTRANSFERASE (MG98) AND 5-aza-dC.

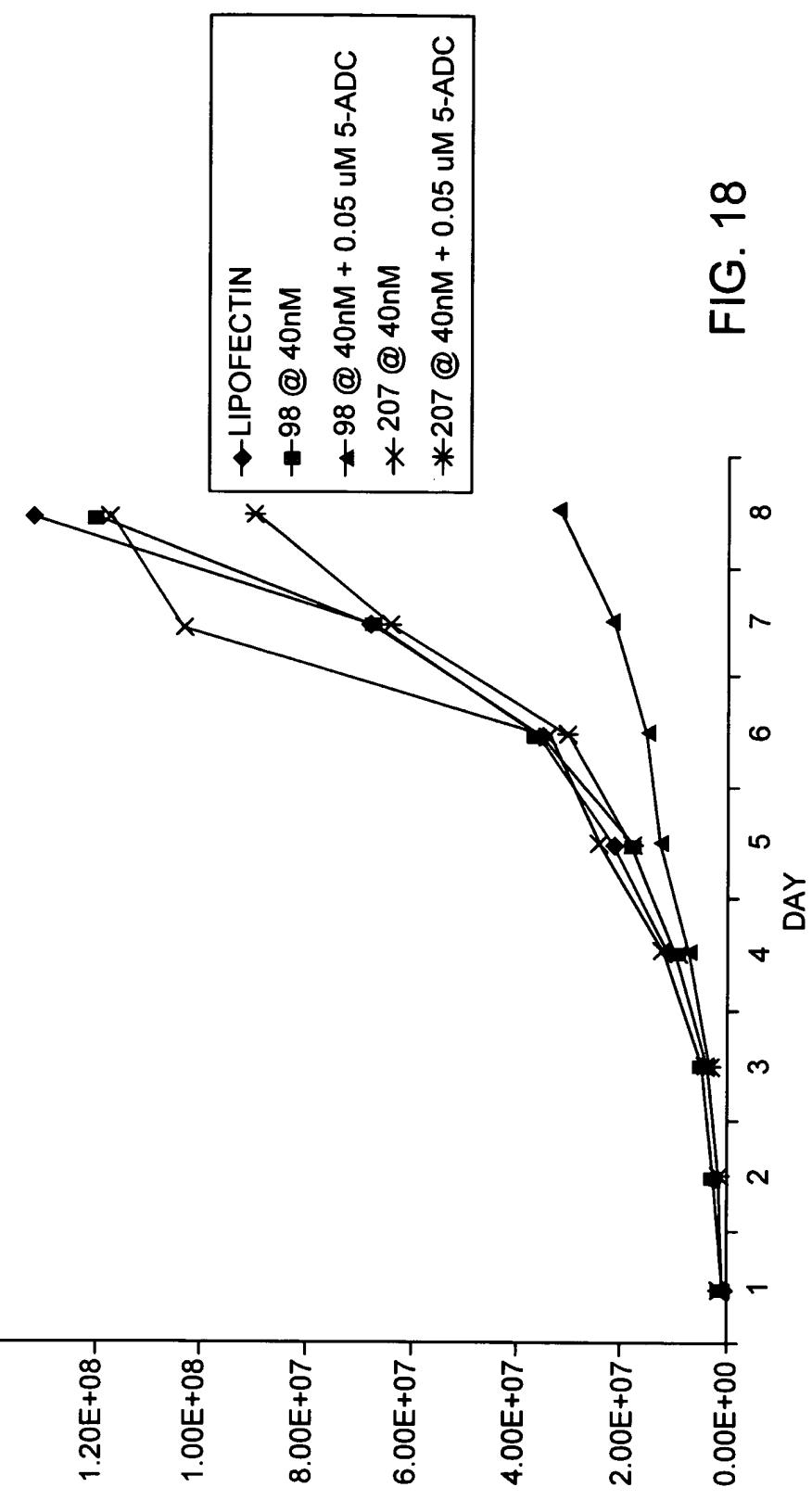


FIG. 18

*IN VIVO* SYNERGISTIC ANTITUMOR ACTIVITY OF ANTISENSE TO HUMAN DNA  
METHYLTRANSFERASE (MG98) COMBINED WITH  
A SMALL MOLECULE IN HUMAN COLON CANCER MODEL COLO 205.

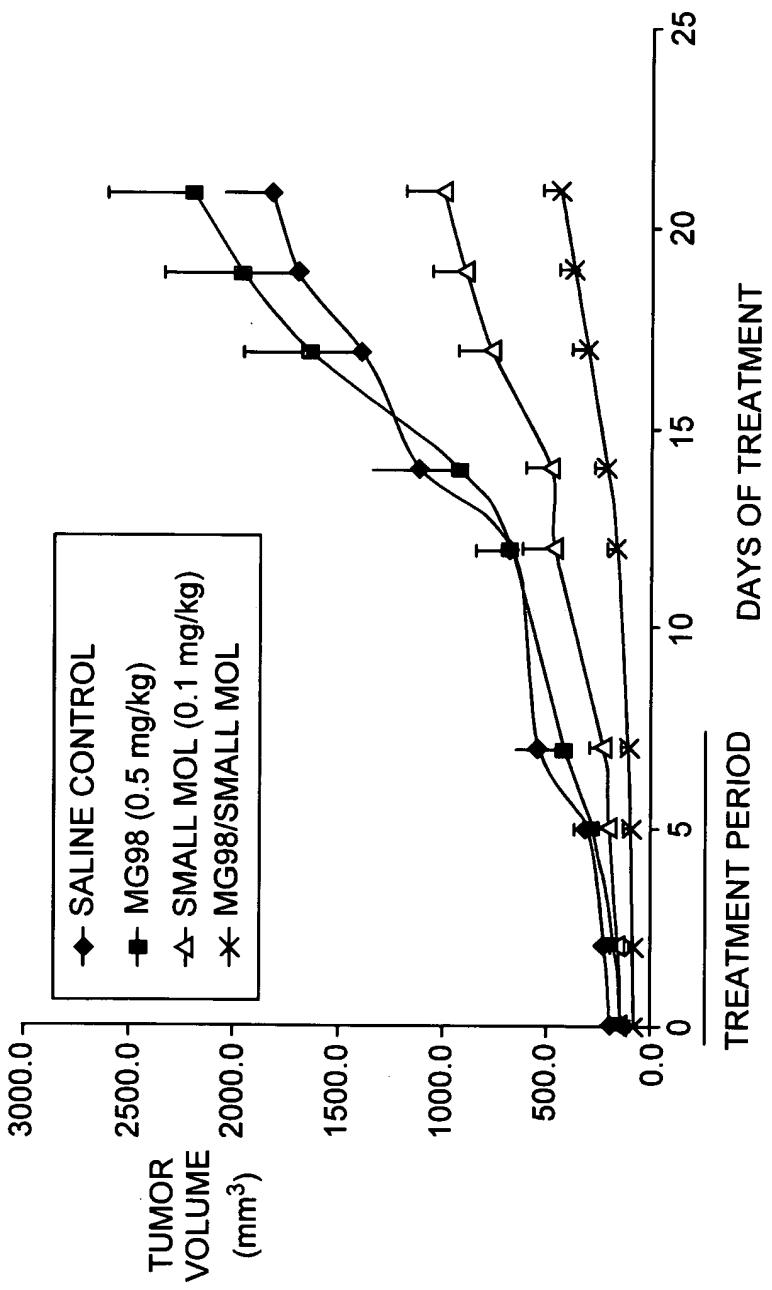


FIG. 19

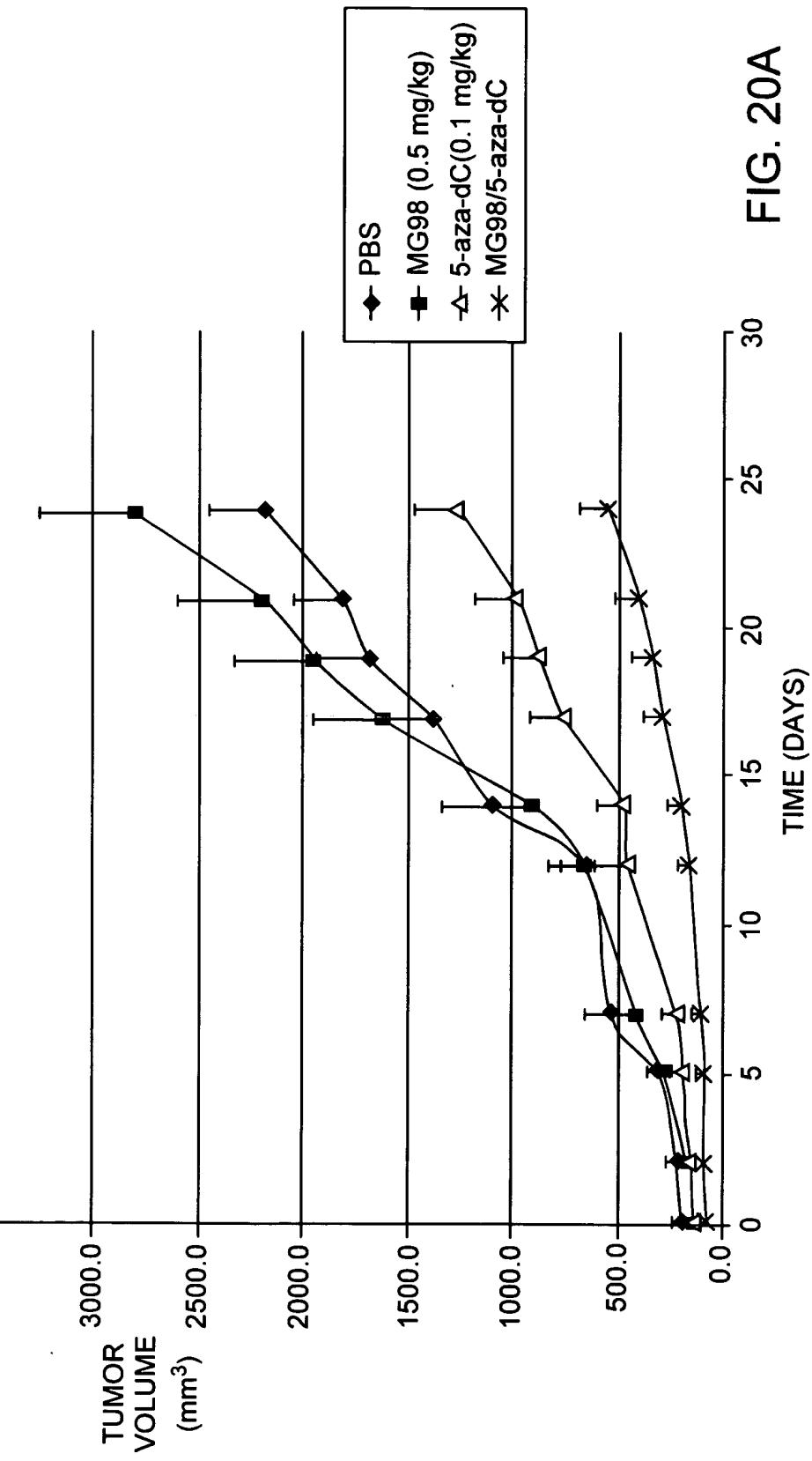
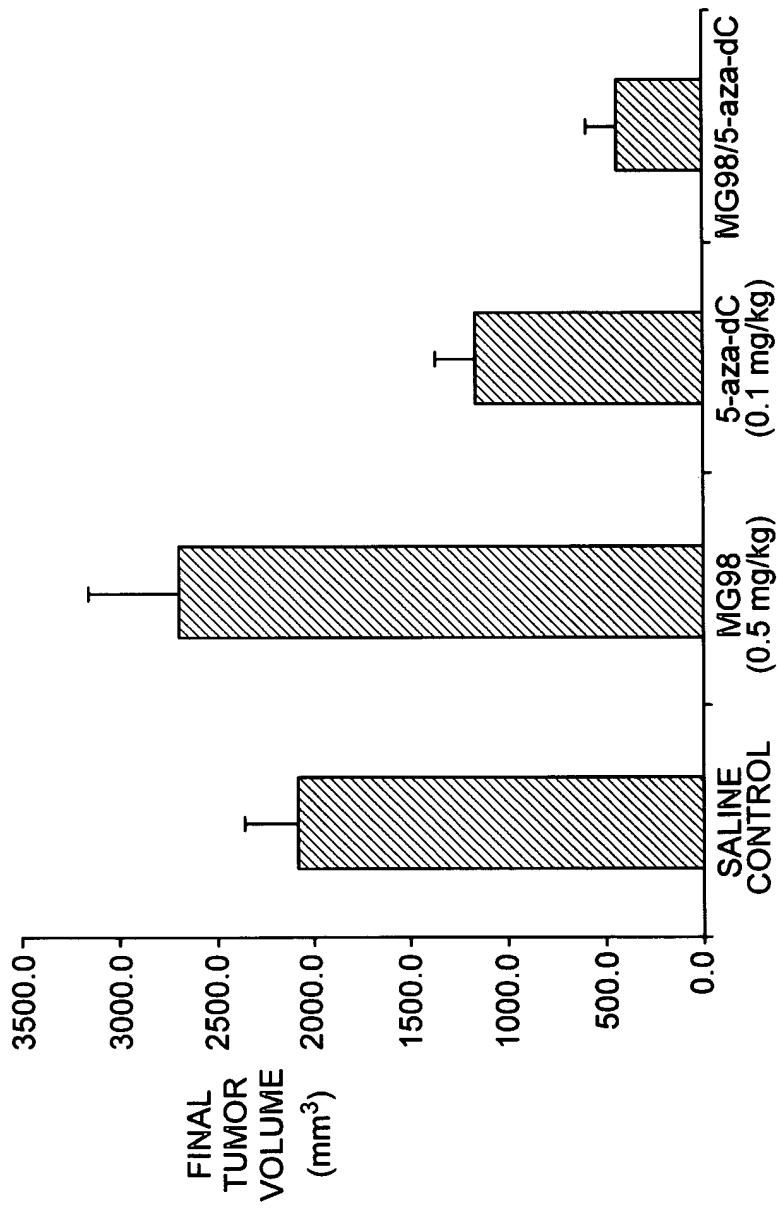
COMBINATION OF MG98 AND 5-aza-deoxycytosine ON GROWTH  
OF Colo205 TUMORS IN NUDE MICE

FIG. 20A

FIG. 20B

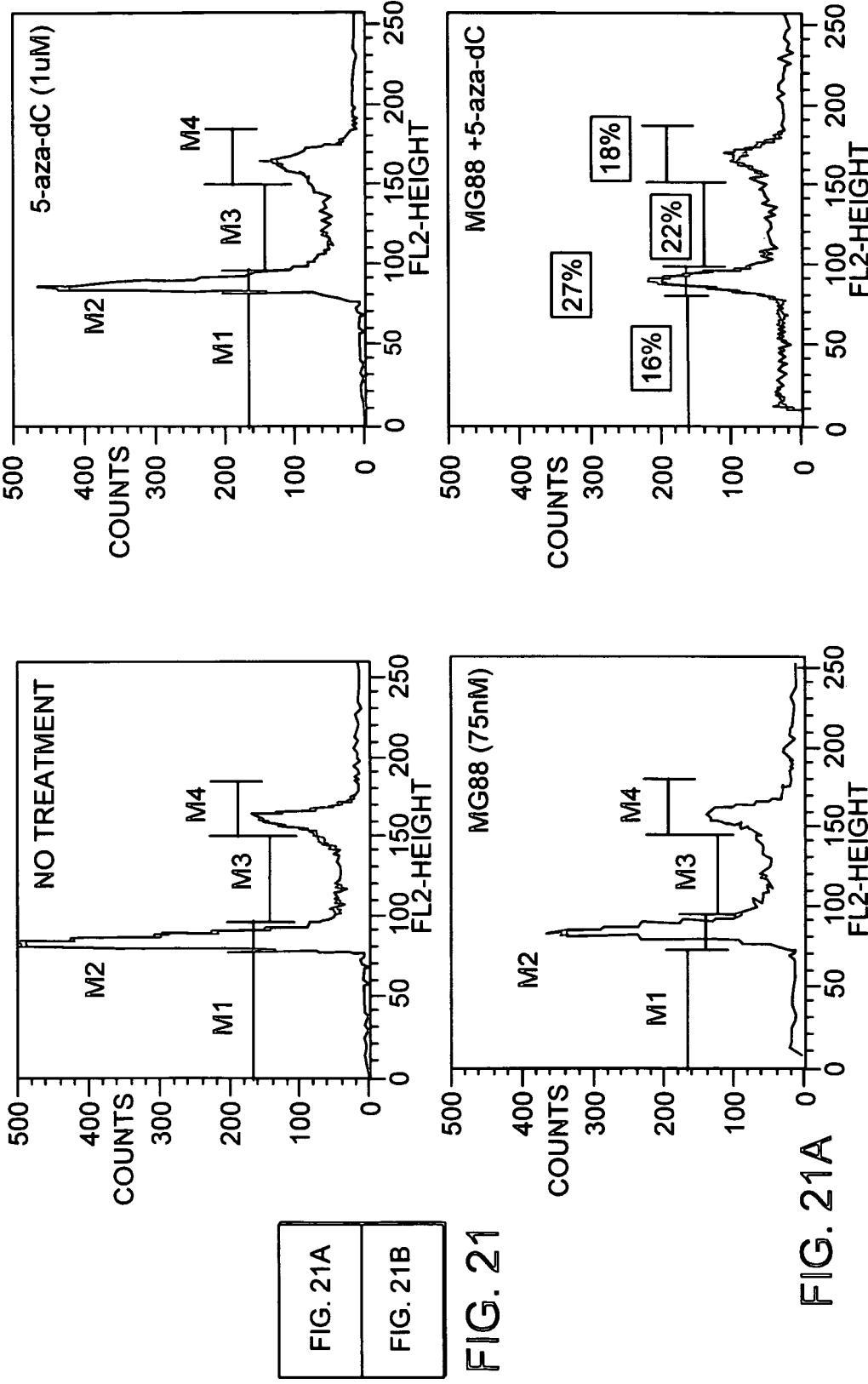
/N VIVO SYNERGISTIC ANTITUMOR ACTIVITY OF ANTISENSE TO HUMAN DNA  
METHYLTRANSFERASE (MG98) COMBINED WITH  
5-aza-2-deoxycytidine IN HUMAN COLON CANCER MODEL COLO 205.



ANTITUMOR ACTIVITY OF COMBINATION OF MG98 AND 5-aza-2-deoxycytidine. GROUPS ARE: SALINE CONTROL, MG98 (0.5mg/kg/day), 5-aza-2-deoxycytidine (0.1 mg/kg/day), MG98 (0.5 mg/kg/day) AND 5-aza-2-deoxycytidine (0.1 mg/kg/day). GROUPS CONSISTED OF SIX ANIMALS EACH. ERROR BARS REPRESENT SEM. GROUP MG98/5-aza-dC WAS STATISTICALLY DIFFERENT (p<0.05) FROM BOTH SALINE TREATED GROUP AND FROM 5-aza-dC TREATED GROUP. GROUP MG98 WAS NOT SIGNIFICANTLY DIFFERENT THAN SALINE CONTROL GROUP.

SCHEDULE INDEPENDENT INHIBITION OF CELL CYCLE PROGRESSION BY COMBINATION OF  
DNA MeTase Antisense inhibitor (MG88) AND DNA MeTase Small Molecule Inhibitor (5-aza-dC).

SCHEDULE A: DNA MeTase Antisense Inhibitor (MG88) followed by Small Molecule Inhibitor (5-aza-dC)



**SCHEDULE B: SMALL MOLECULE INHIBITOR (5-aza-dC) followed by DNA  
MeTase Antisense Inhibitor (MG88)**

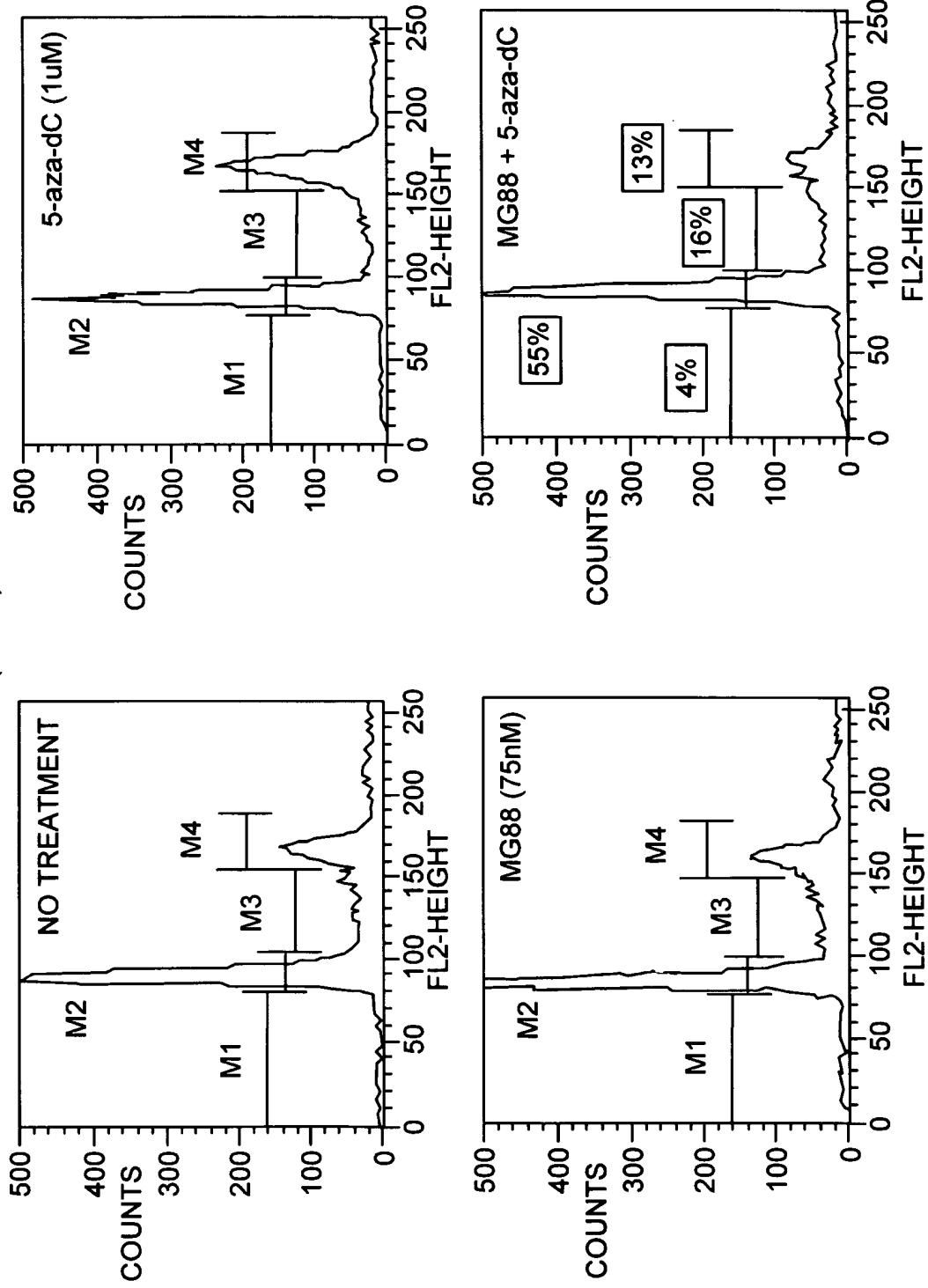


FIG. 21B

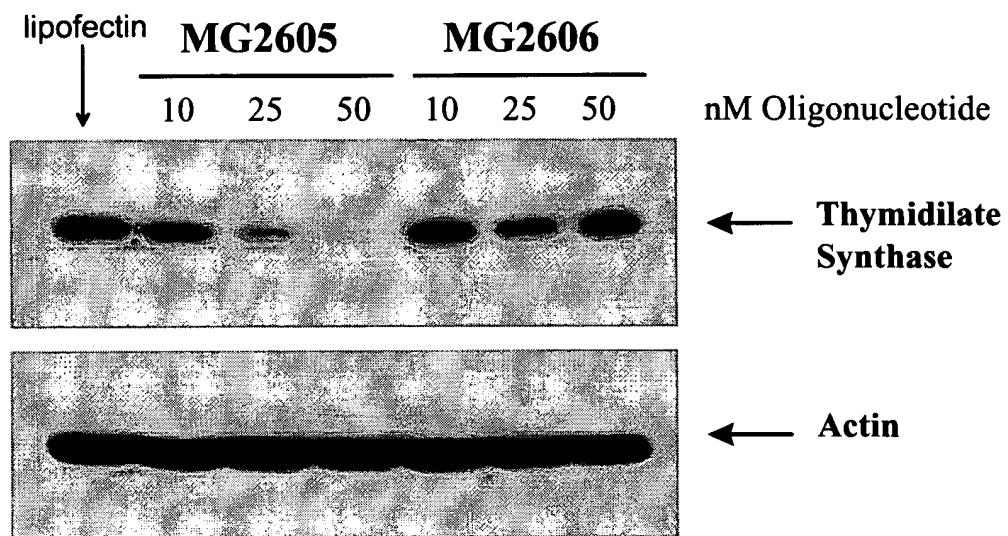


FIG. 22

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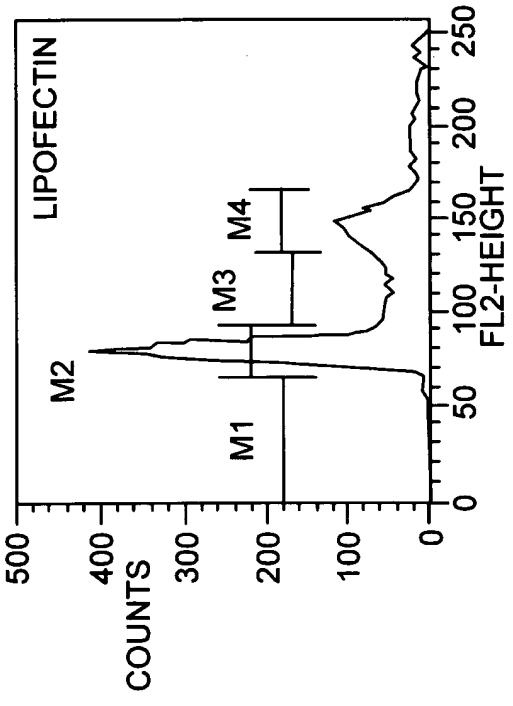
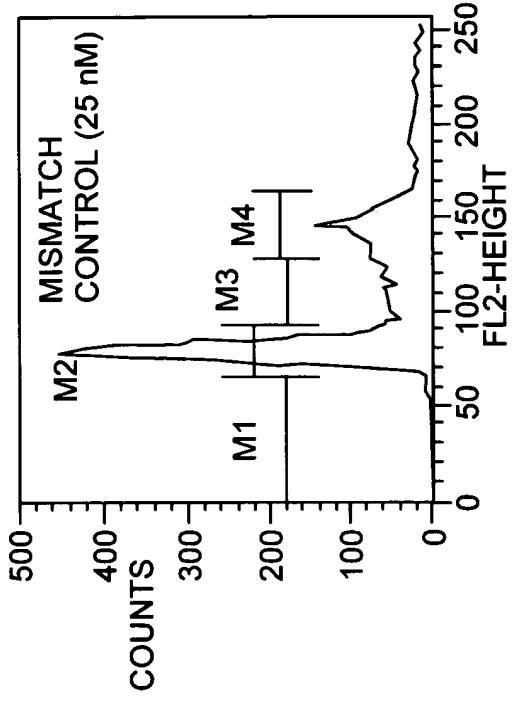


FIG. 23A

FIG. 23B

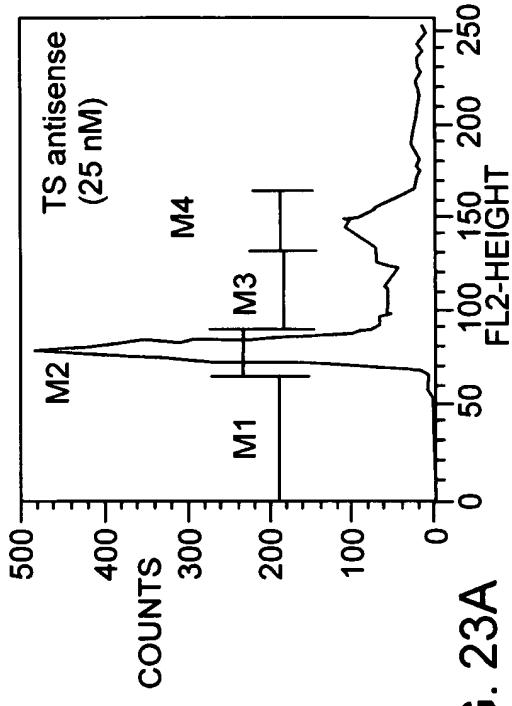
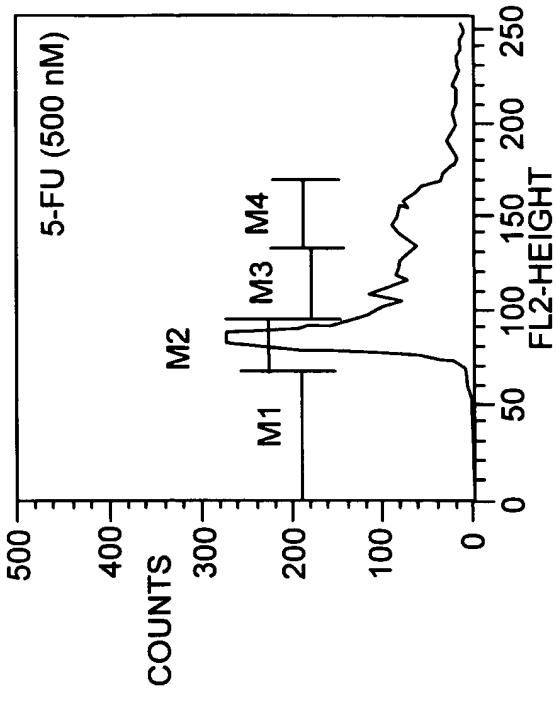


FIG. 23

FIG. 23A

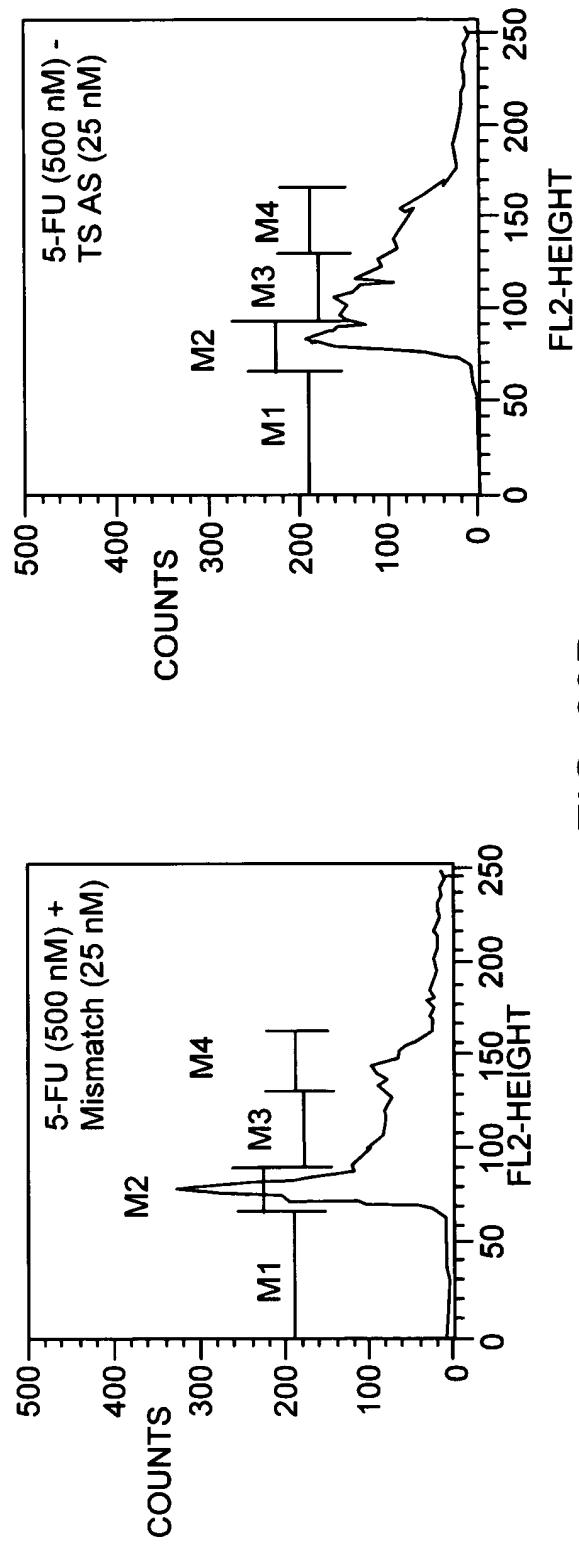
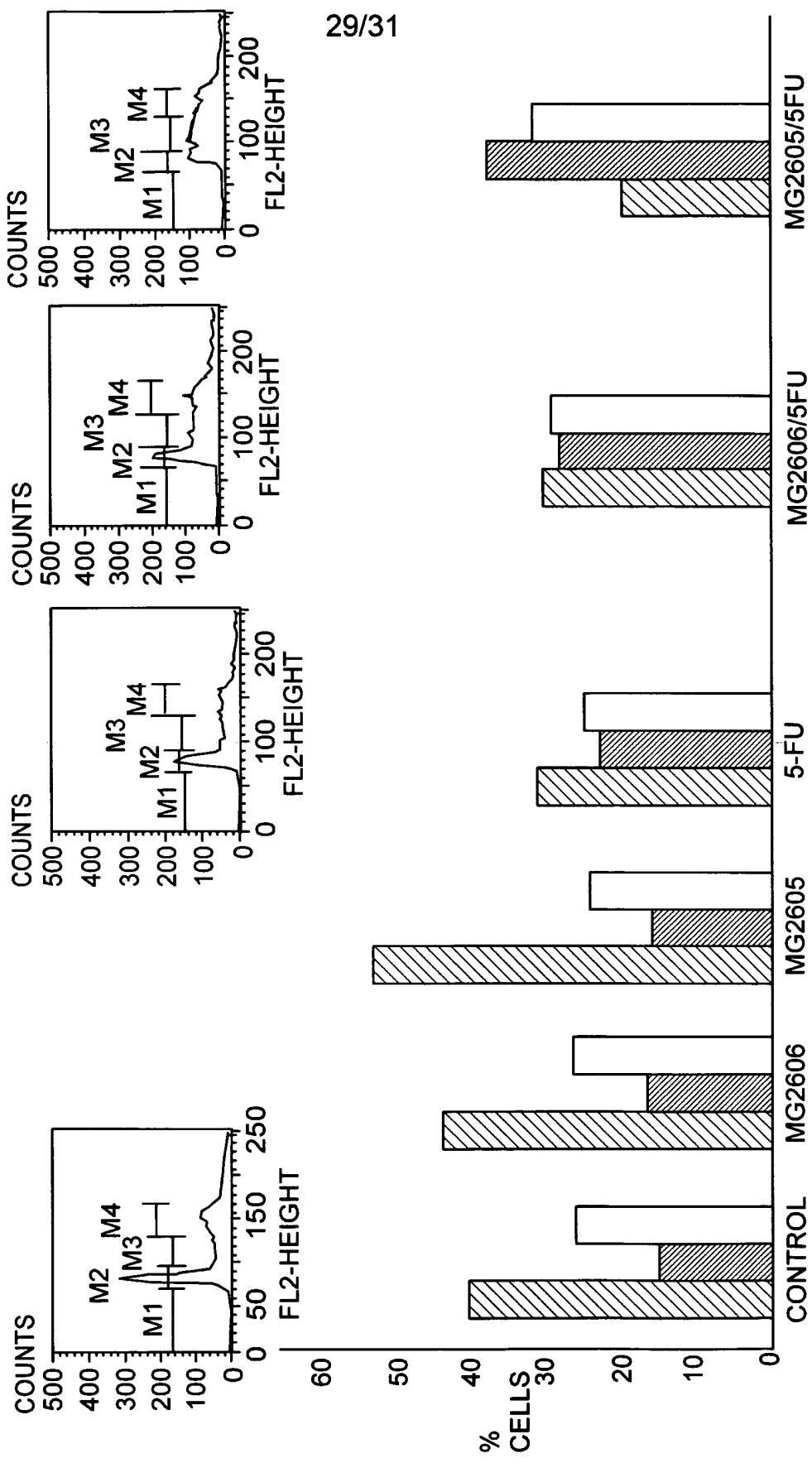
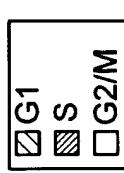


FIG. 23B

**FIG. 24A**

CELL CYCLE ANALYSIS OF CELLS TREATED WITH TS antisense  
oligo (25nM) AND 5-FU (5 $\mu$ M)



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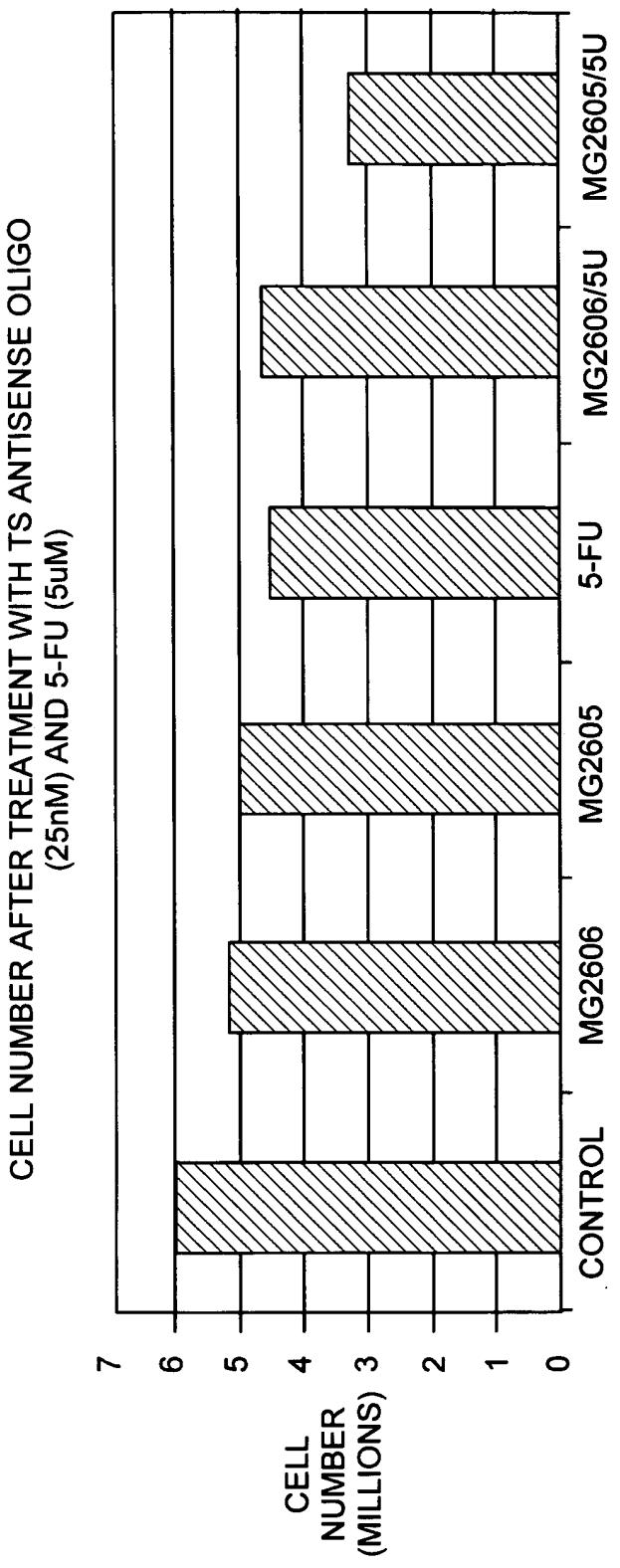


FIG. 24B

## Synergistic Induction of p21WAF1/CIP by Combination of HDAC Antisense and TSA

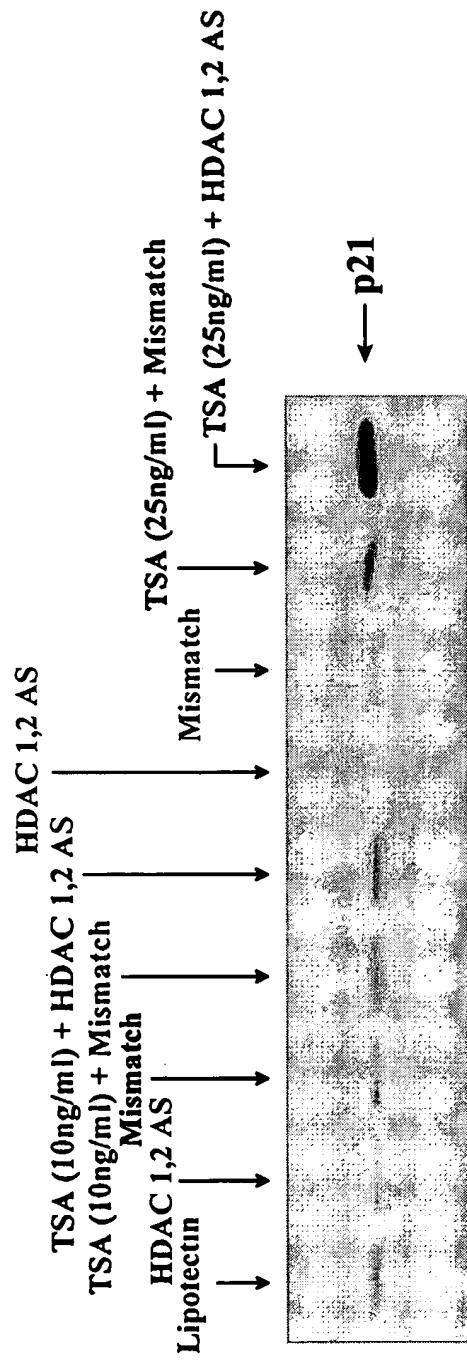


FIG. 25

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